

CLAIMS

1. A candle comprising at least two distinct phases characterised in that at least one of the phases comprises from 0.0001 % w/w to 99 % w/w of an active volatile material.
2. A candle according to claim 1 characterised in that the active volatile material is selected from an insecticide, an insect repellent, an insect attractant, a fragrance, a deodorising agent and an anti-bacterial agent, or any combination thereof.
3. A candle according to claim 2 characterised in that the active volatile material is selected from an insecticide, an insect repellent, an insect attractant, a deodorising agent and an anti-bacterial agent, or any combination thereof.
4. A candle according to claim 1 characterised in that at least one of the phases comprises from 1 % w/w to 99 % w/w of an active volatile material.
5. A candle according to claim 1 characterised in that at least one of the phases comprises from 12 % w/w to 99 % w/w of an active volatile material.
6. A candle according to claim 5 characterised in that at least one of the phases comprises from 15% to 99% w/w of an active volatile material.
7. A candle according to claim 6 characterised in that at least one of the phases comprises from 20 % w/w to 70% w/w of an active volatile material.
8. A candle according to claim 5 characterised in that the active volatile material is a fragrance, deodorising agent, insect repellent or anti-bacterial agent
9. A candle according to claim 5 characterised in that the active volatile material is a fragrance.

10. A candle according to claim 1 characterised in that the two phases comprise a first layer and at least a second layer which is an outer layer wherein, the outer layer comprises from 0.0001 % w/w to 99 % w/w of an active volatile material.
- 5 11. A candle according to claim 10 characterised in that the candle comprises a single outer layer.
12. A candle according to claim 10 characterised in that the first layer comprises a core and the outer layer is a shell.
- 10 13. A candle according to claim 12 characterised in that the core comprises from 0 to 99% w/w of an active volatile material
14. A candle according to claim 13 is characterised in that the active volatile
15 material is selected from an insecticide, an insect repellent, an insect attractant, a deodorising agent and an anti-bacterial agent.
15. A candle according to claim 13 characterised in that the core comprises from 0.0001 % to 99 % w/w of an active volatile material.
- 20 16. A candle according to claim 15 characterised in that the active volatile material is selected from a fragrance, an insecticide, an insect repellent, an insect attractant, a deodorising agent and an anti-bacterial agent.
- 25 17. A candle according to claim 10 characterised in that the core comprises from 15% w/w to 99 % w/w of an active volatile material and the active volatile material is a fragrance.
- 30 18. A candle according to claim 10 characterised in that the core comprises from 0 to 99 % w/w of a volatile materials selected from an insecticide, an insect repellent, an insect attractant, a deodorising agent and an antibacterial agent, and / or

from 15 % w/w to 99% w/w of one or more active volatile materials wherein the active volatile material is a fragrance.

19. A candle according to claim 1 characterised in that one or both of the phases
5 comprise of a single layer or a plurality of layers and at least one of the layers comprises from 0.0001% w/w to 99% w/w of an active volatile material, selected from an insecticide, an insect repellent, an insect attractant, , a deodorising agent and an anti-bacterial agent.

10 20. A candle according to claim 1 characterised in that one or both of the phases comprise of a single layer or a plurality of layers and at least one of the layers comprises, from 7 % w/w to 99 % w/w of an active volatile material wherein the active volatile material is selected from a fragrance, deodorising agent, insect repellent or anti-bacterial agent.

15 21. A candle according to claim 1 characterised in that one or both phases comprise of a single layer or a plurality of layers and at least one of the layers comprises a combination from 0.0001% w/w to 99% w/w of one or more volatile materials selected from an insecticide, an insect repellent, an insect attractant, a deodorising
20 agent and an antibacterial agent, and / or from 7 % w/w to 99% w/w of one or more active volatile materials wherein the active volatile material is a fragrance.

22. A candle according to claim 1 characterised in that at least one of the phases comprises an olefin.

25 23. A candle according to claim 1 characterised in that at least one of the phases comprises a material selected from,
a linear α -olefin or a mixture of linear α -olefins,
a linear α -olefin or a mixture of linear α -olefins, wherein at least one of the linear
30 alpha olefins is at least a C30 linear α -olefin,

- a linear α -olefin or a mixture of linear α -olefins, wherein at least one of the linear α -olefins is LAO C30+,
Sylvaclear (ATPA) or a mixture of amide terminated polyamides,
Uniclear (ETPA) or a mixture of ester terminated polyamides,
- 5 another material, selected from a suitable solvent, paraffin was, beeswax, stearine, montan wax, carnauba wax, microcrystalline wax, an elastomer, fatty alcohols, fatty acids, fatty esters, natural and synthetic resins, another materials, or any combination thereof.
- 10 24. A candle according to claim 1 characterised in that the two phases comprise a first phase which is an inner core and a second phase which is at least one outer layer wherein at least one of phases comprises from 20 to 70 % by weight of a linear α -olefin or a mixture of linear α -olefins.
- 15 25. A candle according to claim 24 characterised in that the at least one phase comprises from 40 to 60 % by weight of a linear α -olefin or a mixture of linear α -olefins.
- 20 26. A candle according to claim 23 characterised in that at least of the phases comprises from about 40 to 60 % w/w of a linear alpha olefin and from about 40 to 60 % w/w of a fragrance.
- 25 27. A candle according to claim 22 characterised in that the outer layer comprises a mixture of linear α -olefins.
28. A candle according to claim 1 characterised in that the at least one phase comprises up to 50 weight percent of a suitable solvent
29. A candle according to claim 1 characterised in that the candle comprises at
30 least two volatile active materials in one or more phases which may be the same or

different, each of which may be selected from an insecticide, an insect repellent, an insect attractant, a fragrance, a deodorising agent or an anti-bacterial agent.

30. A candle according to claims 1 characterised in that at least one of the phases
5 is discontinuous.

31. A candle according to claims 1 characterised in that at least one of the phases is unconnected with the other phase and is connected to an element of the candle.

10 32. A candle according to claim 1 in that at least one of the phases does not comprise an active volatile material.

33. A candle according to claim 1 characterised in that at least one of the phases acts as a bonding, sealing, separating, barrier, supporting or coating agent or a
15 combination thereof on the other phase.

34. A candle according to claim 1 characterised in that at least one of the phases comprises a non-melting wax, stone, metal, plastic, or ceramic or a mixture thereof and from 0.0001 % w/w to 99 % w/w of an active volatile material selected from an
20 insecticide, insect repellent, insect attractant, a fragrance, deodorising or anti-bacterial agent

35. A candle according to claim 1 characterised in that at least one of the phases comprises a glass and from 7 % w/w to 99 % w/w of an active volatile material
25 whereby the active volatile material is a fragrance or from 0.0001 % w/w to 99 % w/w of an active volatile material whereby the active volatile material is selected from an insecticide, insect repellent, insect attractant, deodorising or anti-bacterial agent

30 36. A candle according to claim 1 characterised in that at least one of the phases comprises any combination from a glass and from 7 % w/w to 99 % w/w of an active

volatile material whereby the active volatile material is a fragrance or from 0.0001 % w/w to 99 % w/w of an active volatile material whereby the active volatile material is selected from an insecticide, insect repellent, insect attractant, deodorising or anti-bacterial agent and a non-melting wax, stone, metal, plastic, or ceramic or a mixture thereof and from 0.0001 % w/w to 99 % w/w of an active volatile material selected from an insecticide, insect repellent, insect attractant, a fragrance, deodorising or anti-bacterial agent.

37. A candle according to claim 1 characterised in that it is either a free-standing candle or a candle in an open or closed container.

38. A candle according to claim 1 characterised in that in normal use at least one of the phases is horizontally oriented.

39. A candle according to claim 1 characterised in that in normal use at least one of the phases is vertically oriented.

40. A candle according to claims 1 characterised in that the phases have different melting rates.

41. A candle according to claim 1 characterised in that the candle comprises a plurality of wicks.

42. A device comprising a candle according to claim 1 adapted to be used as an airfreshener, insecticide, insect repellent, insect attractant, deodorising and/or anti-bacterial device characterised in it does not comprise a candle wick.

43. A device according to claim 42 characterised in that the device comprises an air freshener, insect or pest control product, odour neutralizer, deodoriser or anti-bacterial device.

44. A candle according to claim 1 characterised in that one phase comprises a liquid at room temperature.

45. A candle according to claims 44 characterised in that at least one phase
5 comprises a liquid fuel.

46. A candle according to claim 45 characterised in that the liquid comprises an oil, an alcohol or other fuel or mixtures thereof.

10 47. A candle according to claim 1 characterised in that at least one of the phases comprises a transparent material.

48. A candle according to claim 1 characterised in that the active volatile material is encapsulated inside one of the phases.
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49. A process for the preparation of a candle according to claim 1 characterised in that the process comprises a method selected from one or more of moulding, dipping, compressing, extruding and the like.

20 50. A process according to claim 49 characterised in that the process comprises coating a conventional candle

51. A candle according to claim 1 characterised in that the candle has an improved burn performance
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